LINCOLN INDUSTRIAL

Quicklub®

Centralized & Automated Lubrication Systems

"I design Quicklub and other systems to satisfy each customer's unique requirements."

Patrick Sändker, Application Engineer,
Lincoln Industrial Systems House, Walldorf Germany

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People, Capabilities and Systems to Save Money and Increase Productivity

We're the largest and most successful company in our field because we continually satisfy our customers with the world's best lubrication and pumping systems. For almost 90 years, companies have relied on our technical and quality leadership, our world-class manufacturing and customer service, and our vast network of distributors and support facilities.

Lincoln Industrial develops new products and systems at research and development facilities in the U.S., Germany and India that provide global and regional application solutions.

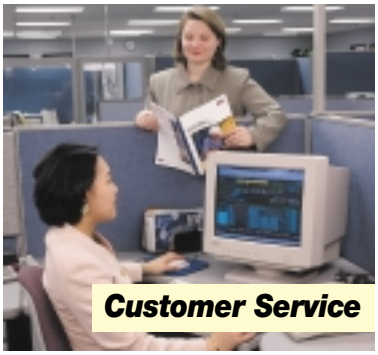
We have solutions for large processing plants, automotive manufacturing, pulp and paper mills, and food and beverage facilities. Virtually every industrial professional involved in operations and maintenance can benefit from Lincoln Industrial systems.

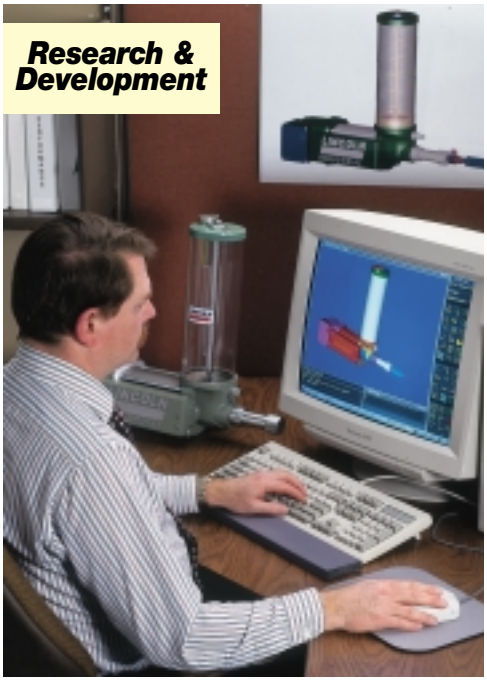
On the road or in the field, Lincoln Industrial protects heavy equipment used in mining, construction, agriculture and over-the-road trucking. The world's leading manufacturers offer our systems as standard equipment or factory options.

Lincoln Industrial builds precision metal components, state-of-the-art electronic controls, and the industry's top-performing pump systems. Our quality systems in the United States and Germany are ISO 9001 registered.

With five technical support centers on three continents, and a network of system houses and distributors supported by regional sales and service offices, our customers can always draw on our worldwide resources.

To make sure your investment results in significant savings, Lincoln Industrial developed a unique program called BearingSaver®. You not only get a complete audit of your facility, you also receive an analysis of your return on investment.





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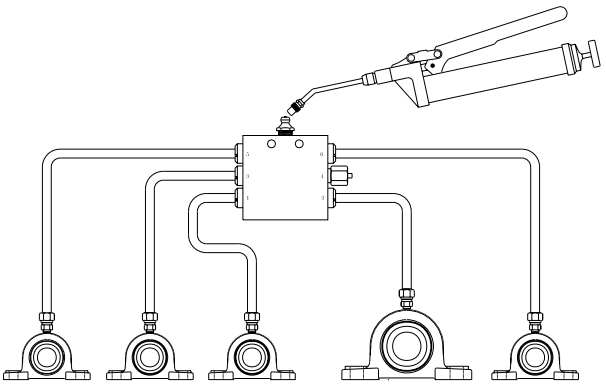
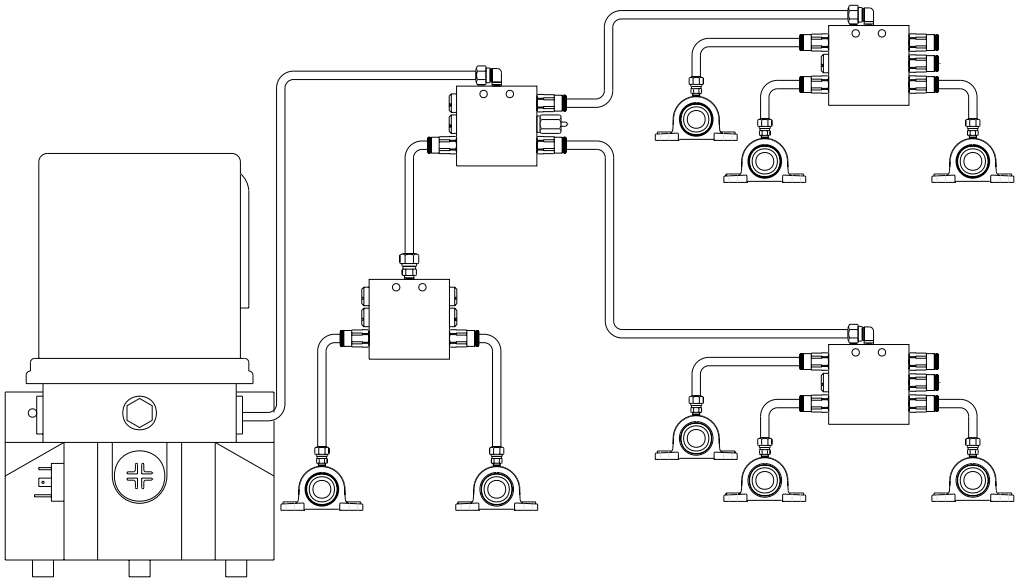
The Lincoln Industrial Quicklub system is designed to provide a relatively simple and inexpensive method of centralizing or automating the lubrication of machinery bearings.

Quicklub can be a simple, centralized system with lubricant supplied manually from a lever gun. Pre-assembled kits are available to service up to 12 points from a single grease fitting. Custom kits can also be provided by our distributors to cover virtually any quantity of points desired.



Quicklub can also be a fully automated system with lubricant supplied by our 12VDC and 24VDC electric or pneumatic pumps. An automated lubrication system typically dispenses small measured amounts of lubricant at frequent intervals while production machines are operating. The electric pumps incorporate an integrated timer for easy installation and trouble-free operation.



Quicklub systems have proven to be the right solution for many industries and applications, eliminating costly, manual point-by-point lubrication. Examples include:

- Packaging
- Lathes
- Beverage industry
- Textile
- Metal Working
- Wood Processing
- Plastic Processing
- Bakery
- Printing
- Punch presses
- Paper Converting
- Milling
- Material Handling Equipment

The heart of the Quicklub® system

More than a drilled manifold block, the valve incorporates a series of metering pistons which accurately dispense lubricant from each outlet, overcoming back pressure of up to 1,000 psi. Visual monitoring is provided with an indicator pin, which confirms a valve has completed a full cycle. Quicklub divider valves are available for grease or oil applications, and in carbon steel and 303 stainless steel for corrosive environments.

Figure 1

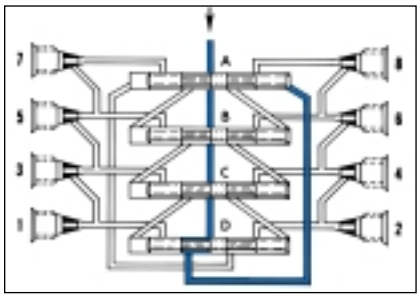


Figure 2

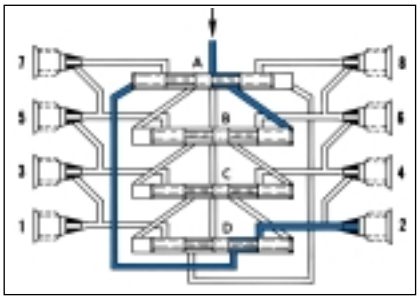


Figure 3

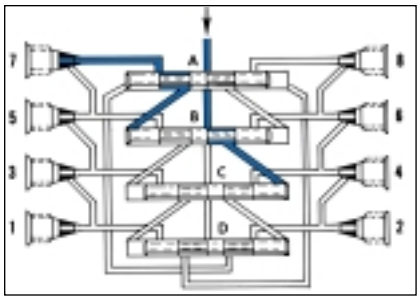
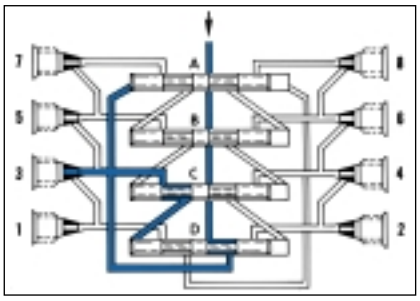


Figure 4



The inlet passageway is connected to all piston chambers at all times with only one piston free to move at any time.

- With all pistons at the far right, lubricant from the inlet flows against the right end of piston A (fig. 1).
- Lubricant flow shifts piston A from right to left, dispensing lubricant through connecting passages to outlet 2. Flow is then directed against the right side of piston B (fig. 2).
- Piston B shifts from right to left, dispensing lubricant through outlet 7. Lubricant flow is directed against the right side of piston C (fig. 3).
- Piston C shifts from right to left, dispensing lubricant through outlet 5. Lubricant flow is directed against the right side of piston D.
- Piston D shifts from right to left, dispensing through outlet 3. Piston D's shift directs lubricant through a connecting passage to the left side of piston A (fig. 4).

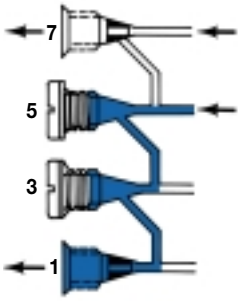
Lubricant flow against the left side of piston A begins the second half-cycle, which shifts pistons from left to right, dispensing lubricant through outlets 1,8,6 and 4 of the divider valve.

Crossporting a divider valve

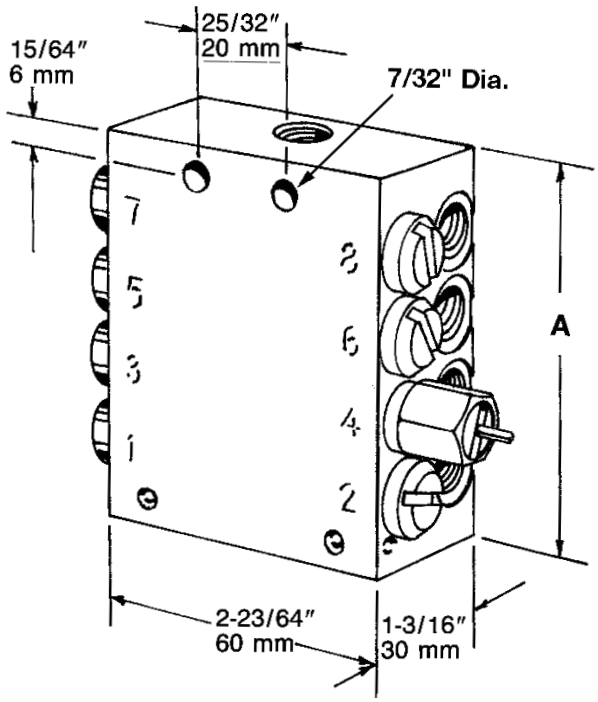
Outputs from adjacent outlets may be combined by installing a closure plug in one or more outlets. Lubricant from a plugged outlet is redirected to the next adjacent outlet in descending numerical order. Outlets 1 and 2 must not be plugged since they have no cross-port passage to the next adjacent outlet.

In figure 5, outlets 5 and 3 are cross-ported and directed through outlet 1. In this example, outlet 1 will dispense three times as much lubricant as outlet 7. The tube ferrules in outlets 1 and 7 block the cross-port passage so that lubricant flow is only directed through outlets.

Figure 5



SSV Divider Valves



The SSV Divider Valve is the “heart” of a manual or automated Quicklub system. Featuring from 6 to 18 outlets, the SSV valve is available in carbon steel and 303 stainless steel for corrosive environments. Valves are available with cycle indicator pins to provide visual indication of system operation.

Specifications:

Construction Material	Max. Operating Pressure psig / bar	Output/Cycle per Outlet cu. in. / cc	Lubricant Inlet	Operating Temp.	
				min	max
Carbon Steel	4350 / 300	.012 / .2	⅛" NPTF(F)	-22˚F (-30˚C)	212˚F (100˚C)
Stainless Steel			⅛" BSPP(F)*		

Note: Lubricant outlet must use Lincoln Industrial Quicklub fittings. See Divider Valve Accessories section.
* 241650 stainless steel adapter available to convert inlet to ⅛" NPTF (F).

Model No.		Maximum Number of Outlets	Cycle Indicator Pin	Dimension A in. / mm
Carbon Steel	303 Stainless Steel			
619271211		6	No	2.36
619271221	619274721		Yes	60
619263962		8	No	2.95
619266462	619274741		Yes	75
619268441		10	No	3.54
619268452	619274761		Yes	90
619263982		12	No	4.14
619266482	619274781		Yes	105
619272921		18	Yes	6.50 / 165

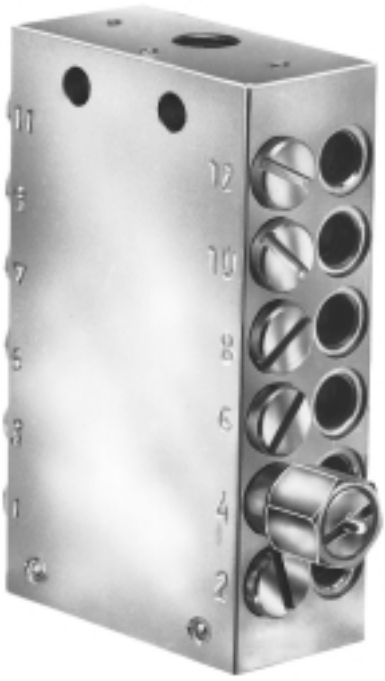
Note:
You must use outlets 1 and 2 for each of the above referenced models to allow the system to operate properly with the exception of Model 619272921, which requires utilization of outlets 17 and 18.

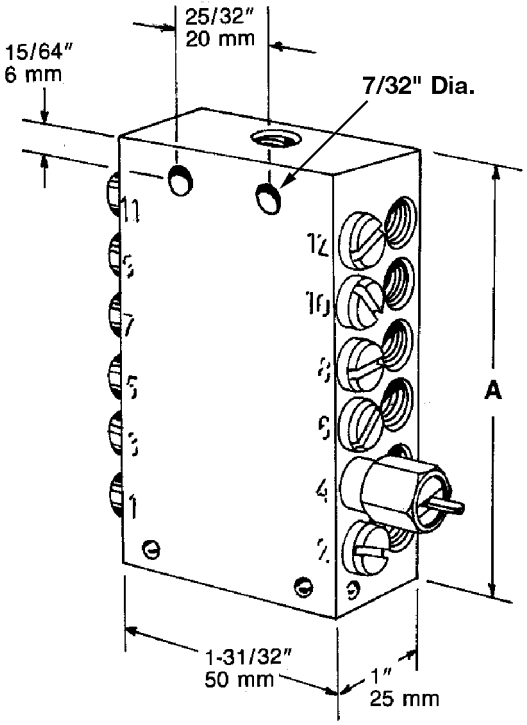
SSV Divider Valve Accessories

Part Number	Description
249010	Cycle switch for providing feedback monitoring for SSV systems

Note:
Cycle switch can only be used with SSV Series Quicklub valves that have indicator pins. Remove slotted plug from indicator assembly on valve prior to installing switch.

SSVM Divider Valves





The SSVM Divider Valve is smaller in overall size than the SSV series and provides smaller volume output per outlet. Available with 6 to 12 outlets, the SSVM series valve is used primarily in oil system applications.

Specifications:

Construction Material	Maximum Operating Pressure psig / bar	Output/Cycle per Outlet cu. in. / cc	Lubricant Inlet	Operating Temp.	
				min	max
Carbon Steel	1450 / 100	.0037 / .06	⅛" NPTF(F)	-22°F (-30°C)	212°F (100°C)

Note:
Lubricant outlet must use Lincoln Industrial Quicklub fittings. See Divider Valve Accessories section.

Model No. Carbon Steel	Maximum Number of Outlets	Cycle Indicator Pin	Dimension A in. / mm
619267641	6	No	1.91 / 48.5
619267653		Yes	
619266501	8	No	2.36 / 60
619266513		Yes	
619268481	10	No	2.81 / 71.5
619268492		Yes	
619266531	12	No	3.26 / 83
619266543		Yes	

Note:
You must use outlets 1 and 2 in all systems.

Zerk-Lock™ and Quicklinc® Make Connecting Fast

Installing lubrication systems can take a lot of time, especially when there's not much space to work with. Those problems are a thing of the past with Lincoln Industrial's unique Zerk-Lock and Quicklinc connectors and adapters. Great for hard-to-reach places and those spots where there's no room for a wrench, Zerk-Lock and Quicklinc cut the time it takes to install line connections in half—or more—when compared to screw-type connectors.

Quicklinc line connectors and adapters link metering valves and flexible lubrication lines. Outlet adapters with check valves are used in automated systems, while models without a check valve are used in manual systems—called single point kits—where a divider valve connected to several lubrication points is fed with a grease gun.

The Quicklinc tube splicer union is a great way to fix a broken line without replacing the whole line. Just clean the line ends, plug them into the connector and the line's repaired.

Quicklinc lube point connectors are ideal when fittings can be removed easily. All three varieties—straight, 90-degree elbow and elbow swivel—connect much faster than using a typical screw connector, which requires assembly of four components.

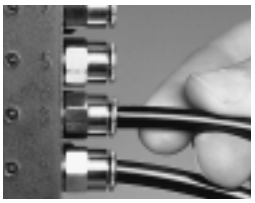
Zerk-Lock is Lincoln Industrial's other great time-saving connector. When removing a fitting is not practical, the Zerk-Lock grease fitting adapter is the answer. It connects any 1/8-inch male tube adapter directly to a grease fitting. Even when a fitting is self-tapered or pressed in, there's no need to drill it out and tap new threads with Zerk-Lock—a tremendous time saving.

Box Quantities:

Model No.	Description
252751	Valve outlet fitting with check for 1/4'' nylon tubing
252752	Valve outlet fitting without check for 1/4'' nylon tubing
252753	1/4'' tube x 1/8'' NPT male straight fitting
252754	1/4'' tube x 1/8'' NPT male 90° fitting
252755	1/4'' tube x 1/8'' NPT male 90° swivel fitting
252756	1/4'' tube x 1/4''- 28 male straight fitting
252757	1/4'' tube x 1/4''- 28 male 90° fitting
252758	1/4'' tube x 6 mm male 90° fitting
252759	1/4'' tube x 6 mm straight fitting
252760	1/4'' tube x 1/4'' tube splicer union
252761	1/8'' NPSL female Zerk-Lock grease fitting adapter

The models are economy packaged, 50 pieces per carton.

Quicklinc and Zerk-Lock are designed to work well together. It's as simple as:


1. Install a Quicklinc into the divider valve and insert the line

2. Place a Zerk-Lock onto the fitting

3. Seal and tighten Zerk-Lock using a hammer and staking tool

4. Then thread a Quicklinc completely into the Zerk-Lock

5. And plug the tube into the Quicklinc adapter

Standard Compression Fittings for Steel or Nylon Tubing

Part No.	Description
241290	¼" tube x ⅛" NPT male straight fitting
241293	¼" tube x ⅛" NPT male 90° fitting

Quicklinc® Push-In Style Fittings for Nylon Tubing

Part No.	Description
244047	¼" tube x ⅛" NPT male straight fitting
244048	¼" tube x ⅛" NPT male 90° fitting
243699	¼" tube x ⅛" NPT male 90° swivel fitting
244054	¼" tube x ¼ - 28 male straight fitting
244055	¼" tube x ¼ - 28 male 90° fitting
244056	¼" tube x 6 mm male 90° fitting
244057	¼" tube x 6 mm straight fitting
244058	¼" tube x ¼" tube splicer union

Divider Valve Outlet Adapters Without Check Valves

Quicklub® adapters without check valves are for use in manual systems where lubricant is supplied from hand grease guns or pneumatic powered lever guns. Quicklub® adapters with check valves are for use in all automated systems.

Divider Valve Outlet Adapters for ¼" O.D. Steel or Nylon Tubing Compression Style With Check Valve

Part No.	Description
68462	Ferrule ¼"
402226021	Compression nut
504316063	Check valve body
404225812	Clamping ring

Divider Valve Outlet Adapters for ¼" O.D. Steel or Nylon Tubing Compression Style Without Check Valve

Model	Description
404202364	Comp. Nut
404236681	Comp. Nut
404225812	Ferrule

Divider Valve Outlet Adapters for ¼" O.D. Nylon Tubing Quicklinc® Push-In Style

Part No.	Description
244883	Valve outlet fitting with check
244884	Valve outlet fitting without check

Divider Valve Outlet Adapters for ⅛" I.D. Hose

Part No.	Description
404225812	Clamping ring
239857	Valve outlet adapter with check
239959	Valve outlet adapter without check

Divider Valve Mounting Accessories

Part No.	Description
246416	Valve mounting bracket
51304	¼" nylon locknut for valve mounting
247023	Grade 8, ¼" valve mounting bolt
239499	Template for divider valve mounting (6,8, 10 and 12 outlet valves)
241233	Template for 18 outlet (model 619272921) valve

Divider Valve Outlet Closure Plugs & Gaskets

Part No.	Description
209121582	Valve outlet closure plug gasket
303174992	Valve outlet closure plug

Supply and Feed Line Hose

Min. Burst	Lube Working Pressure	Nominal Size		Minimum Bending Radius	Construction
		I.D.	O.D.		
10,000 psig 690 bar	4000 psig 276 bar	⅛"	5⁄16"	3½"	Nylon Tube Dacron Braid Polyurethane Cover

Part No.	Description
241285	2 ft. (.61m) coil grease filled
241286	26 ft. (7.92m) coil grease filled
241287	35 ft. (10.66m) coil grease filled
241288	40 ft. (12.19m) coil grease filled
252717	200 ft (60.96m) coil non-grease filled

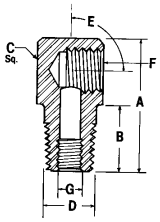
Hose Ends for ⅛" I.D. Hose

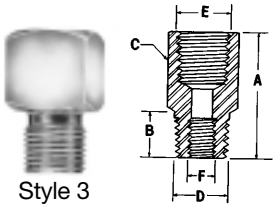
Part No.	Description
241289	⅛" NPT swedge on hose stud (requires swedging tool)
246002	⅛" NPT field installable hose coupling (swedging tool not required)

Feed Line Nylon Tubing

O.D. Inches	Wall Thickness In. / mm	Working Pressure		Minimum Bending in / mm
		psig	bar	
¼"	.050 / 1.27	625	42.5	.875 / 22.2

Part No.	Description
242025	25 ft. (7.62m) coil grease filled
242050	50 ft. (15.24m) coil grease filled
62357	100 ft. (30.48m) coil non-grease filled
247022	500 ft. (152.40m) coil non-grease filled



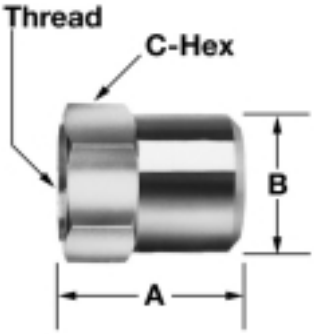


Pipe Thread Adapters

Model No.	Style	A	B	C	D	E	F	G
13154	3	7/8	3/8	1/2 sq.	1/8 NPSM	1/8 NPTF	1/4-28 UNF	
13155	1	1	3/8	1/2 sq.	1/8 NPSM	90°	1/8 NPTF	1/4-28 UNF
14054	3	7/8	7/16	1/2 sq.	1/8 NPSM	1/8 NPTF	1/4-28 UNF	
20024	3	7/8	5/16	1/2 hex	1/4-28 Taper	1/8 NPSF		
20026	1	13/16	5/16	1/2 sq.	1/4-28 Taper	90°	1/8 PTF	
20028	2	1	15/32	1/2 sq.	1/8 PTF	45°	1/8 PTF	
20029	1	1	15/32	1/2 sq.	1/8 PTF	90°	1/8 PTF	

Metric Adapters

Model No.	Description
20042	6 mm male x 1/8" NPSF female straight
20043	6 mm male x 1/8" NPSF female 90°
244201	1/8" BSPT male x 1/8" NPT female thread



Zerk-Lock™ Grease Fitting Adapter

Connects any 1/8" NPTF male tube adapter directly to a standard grease fitting. Aluminum, carbon steel construction; fluorocarbon elastomer seal.

Model No.	Thread	Dimensions					
		A		B		C-Hex	
		in.	mm	in.	mm	in.	mm
247340	1/8" NPSL Female	.625	15.9	.500	12.7	.500	12.7

Note:
Zerk-Lock, with a straight female thread, is designed to accept a tube connector with a tapered male thread. This tapered to straight thread engagement is required for secure seal.

Grease Fittings

Part No.	Description
5010	1/4" - 28 taper threaded straight fitting
5045	1/8" NPT threaded straight leakproof fitting
5050	1/4" PTF special extra short straight fitting
5200	1/8" PTF special short 45° fitting
5300	1/8" PTF special short 65° fitting
5400	1/8" PTF special short 90° fitting
5410	1/4" - 28 taper threaded 90° fitting
5701	1/8" PTF special short straight buttonhead fitting
242125	Plastic grease fitting cap

Swivels

Part No.	Description
91048	⅛" NPT male x ⅛" NPT female 90° swivel
91308	⅛" NPT male x ⅛" NPT female straight swivel

Adapter Unions and Locknuts

Part No.	Description
66649	⅛" NPT male x ⅛" NPT female swivel adapter union
51055	⅛" NPSM locknut utilized for remote ⅛" I.D. hose bulkhead connections

Installation/Assembly Tools

Part No.	Description
241237	Plastic tube and hose cutter
241238	Swedging tool for field installation of Model 241289
241239	QL screwdriver

System Finishing Accessories

Part No.	Description
241110	Feed line bundling spiral wrap (10 ft. (3m) length)
241054	Nylon ties (100 count poly bag)
241055	Nylon ties (50 count poly bag)

Quicklub® Lubrication Systems
Installation Components

Lubricant flows through supply lines between the pump and divider valves, then through feed lines between the divider valves and the bearing. Tubing and/or pipe sizes are determined after considering both the length of the line and the specific lubricant intended for use in the system.

Your Lincoln Industrial representative can assist you in the proper selection of supply and feed line material to optimize your application.

Listed below is a simplified outline of the installation components offered. For a complete listing of products, please refer to the Installation Components catalog.

TUBING

- Hydraulic, Steel, Stainless Steel and Nylon
- Single and Multiple Tube Clamps
- Heavy Duty, Standard Duty, Threaded Sleeve and Snap-On Coupler Tube Fittings
- Quicklinc™ Tubing Adapter
- Zerk-Lock™ Grease Fitting Adapters
- Non-Metallic

PIPING

- Seamless
- Continuous Welded
- Forged Fittings
- Malleable Iron Fittings
- 316 Stainless Steel Pipe and Fittings
- Stainless Steel Fittings
- Galvanized Pipe, Threaded Plug and Fittings

ACCESSORIES

- Supply, Feed and Bulk Feed Line Hose
- Air Hose
- Kits for Hose Repair
- Heavy-Duty Air Line Quick Disconnects

AIR CONTROL AND ACCESSORIES

- Manual Shut-Off Valves
- Pressure Gauges
- Lubricant Filters and Strainers

AIRCARE™ AIR PREPARATION SYSTEMS

- Modular Air Line Filters, Regulators and Lubricators
- Integrated/Modular Filter/Regulator with Gauge
- Modular Air Line Combination Units
- High Capacity Air Line Filters, Regulators and Lubricators
- High Capacity Air Line Combination Units
- Miniature Air Line Components—Air Line Filter, Regulator and Lubricator
- Miniature Air Line Combination Units
- Modular Air Line Equipment Accessories: Lockout Valve, Quick Clamp, Quick Clamp Wall Mounting Bracket, Porting Block, Quick Mount Pipe Adaptors, Manifold Block, Pressure Switch, Panel Nut, Wall Mount Bracket, Tamper Resistant Cover & Seal Wire
- Air Line Equipment Accessories: Wall Mount Bracket, High Capacity; Mounting Bracket and Nut, Miniature; Pressure Gauges

PIPE FITTINGS

- Reducing Bushings
- Nipples
- Couplings
- Reducing Couplings
- Street Ells
- Tees
- Crosses
- Adapter Unions
- Elbows
- Pipe Fitting Adapters
- Supply Line Swivels
- Feed Line Swivels
- Anchor and Junction Blocks

Models 94124, 94224 and 94212

These industrial lube pumps are electrically operated and are used in progressive type (Quicklub or Modular Lube) automated lubrication systems. The pump consists of a nylon housing, electric gear motor, and a plastic reservoir with stir-ring paddle. One model incorporates a built-in timer, with the other two cycled by independent timers or machine controls. The pump's ability to develop high operating pressures allows it to supply lubricant up to NLGI #2 grease in most ambient temperatures.

Model:	94124/94224/94212	
Output/Min Per Element**:	.171 cu. in.	2.8 cc
Reservoir Capacity:	4 lb.	1.8 kg
	122 cu. in.	2000 cc
Lubricant Outlet:	⅛" NPT (F)	
Maximum System Operating Pressure:	3600 psig	248 bar
Enclosure Rating:	IP54*	
Operating Temperature Range:	Min. -13°F	-25°C
	Max. 158°F	70°C
Reservoir Fill Method:	By grease fitting	
Pressure Relief Valve:	4000 psi, +/- 250	276 bar, +/- 17

* Protected from water sprayed in all directions.

** Single 6mm element standard; to increase pump output, add one or two additional element(s) #600268762 and relief valve(s) #249567.

Model Number	Electrical Requirements	Internal Timer Setting			
		On Time (2 min. increments)		Off Time (1 hour increments)	
		Min	Max	Min	Max
94124	24 VDC 2 amps	2 min.	30 min.	1 hour	15 hours
94224		Timer not included with Models 94224 and 94212. Select external timer from System Controls section.			
94212	12 VDC 3.5 amps				

Model 249567 Pressure Relief Valve

Designed to protect supply lines in instances of high pressure caused by a blocked component inlet or extremely cold temperatures. The valve assembly consists of a pressure relief valve, a grease fitting for manual servicing of the system and an 1/8" NPT female supply line connection.

Pump Elements

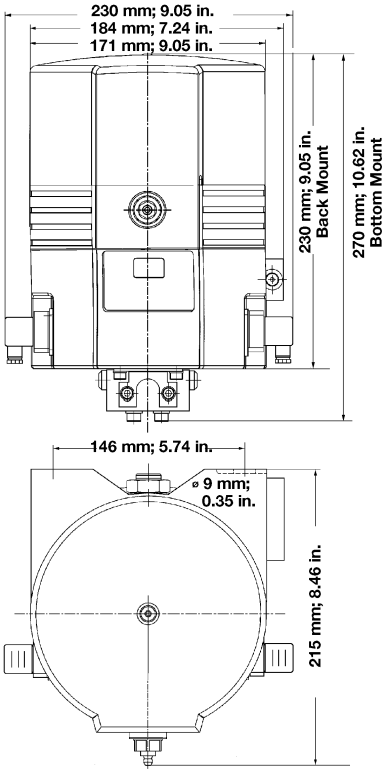
Model No.	Piston Diameter	Lubricant Output	Max. Operating Pressure	Connection Thread
600268752	5 mm	.122 in^3/min / 2 cm^3/min	5000 psi 350 bar	G 1/4"
600268762	6 mm	.171 in^3/min / 2.8 cm^3/min		
600268772	7 mm	.244 in^3/min / 4 cm^3/min		
*600287501				

* Special hammer paste element for electric grease pumps to be used for applications on hydraulic hammers.

Pump Reservoir Conversion Kits & Accessories

Part Number	Description
544320221	4 liter conversion kit
544320231	8 liter conversion kit
638375491	Manual grease filler pump
246322	Remote push button manual lube kit
*241419	12 VDC illuminated manual switch
*241484	24 VDC illuminated manual switch

* To be used with #246322 remote push button manual lube kit



QLS 301

The newest automated Quicklub Lubrication System—the QLS 301—has it all. It's compact, rugged, easy to install and easy to use. It has a long list of standard features and delivers maximum performance, all at an affordable price. For those who thought the reduced downtime and improved safety of automated lubrication were out of reach, and for those waiting for a cost-effective system for their smaller machinery, the reliable QLS 301 is the answer. It's automated lubrication "made easy."

Operating Voltage:	12 and 24 VDC	
	120 and 230 VAC, 50/60 Hz	
Operating Current:	12 VDC	1.0 A
	24 VDC	1.5 A
	120 VAC	1.0 A
	230 VAC	0.5 A
Operating Temperature:	-10° to 158°F	-25° to 70°C
Number of Outlets:	6, 8, 12 or 18	
Reservoir Capacity:	61 in^3	1.0 L
Protection:	NEMA 4	
Lubrication Cycle Time:	20 min. to 100 hours	
Number of Cycles:	1 (with 6, 8 divider block	
	1, 2 or 3 cycles are possible)	
Timer Memory:	Indefinite	
Maximum Operating Pressure:	3000 psig	205 bar
Output per Outlet & Cycle:	approx. 0.012 in^3	approx. 0.2 cm^3
Lubricant:	NLGI 2 grease	
Weight:	12.5 lbs.	5.7 kg

Available Models

Model	Valve Type	Valve Mount	Volt	Cable
P301 31211151	SSV6	Back	12DC	30' / 10m
P301 31411151	SSV6	Back	24DC	30' / 10m
P301 42611111	SSV8	Bottom	120AC	none
P301 42811111	SSV8	Bottom	120AC	none
P301 61211151	SSV12	Back	12DC	30' / 10m
P301 61411151	SSV12	Back	24DC	30' / 10m
P301 62611111	SSV12	Bottom	120AC	none
P301 62811111	SSV12	Bottom	230AC	none
P301 91211151	SSV18	Back	12DC	30' / 10m
P301 91411151	SSV18	Back	24DC	30' / 10m
P301 92611111	SSV18	Bottom	120AC	none
P301 92811111	SSV18	Bottom	230AC	none

Note: All models include low level and remote contacts.

Inch Accessory Size Kits

SSV 6/8 part number 550-36971-1
SSV 12 part number 550-36971-2
SSV 18 part number 550-36971-3

Note: Includes ¼" O.D. tubing and appropriate Quicklinc and Zerk-Lock fittings.

Model 604265381 Grease Pump

Includes sheet metal reservoir, spring-loaded follower and filler fitting for refilling of reservoir with 81834 filler pump.

Model:	**604265381**	
Lubricant:	Grease	
Number of Outlets:	8	
Ratio:	40:1	
Output/Stroke/Outlet:	.018 cu. in.	.3 cc
Reservoir Capacity:	3 lb.	1.5 liter
	91 cu. in.	1500 cc
Air Inlet:	⅛" NPTF Female	
Lube Outlet:	See note #2	
Maximum Lubricant Pressure:	3675 psig	250 bar
Reservoir Level Indication:	Rod	
Fill Method:	Through grease fitting	

Notes:

1. 3-way air valve required for pump operation.
2. Model 604265381 has integrated Divider Valve with cycle indicator pin and must use Lincoln Industrial Quicklub Fittings. See Divider Valve section for part numbers.
3. One pump stroke will cycle the eight outlet progressive divider valve approximately 1.7 cycles.

Model 604272251 Oil Pump

Includes transparent reservoir.

Model:	**604272251**	
Lubricant:	Oil	
Number of Outlets:	1	
Ratio:	40:1	
Output/Stroke/Outlet:	.16 cu. in.	2.6 cc
Reservoir Capacity:	3.8 pints	1.8 liter
	110 cu. in.	1800 cc
Air Inlet:	⅛" NPTF Female	
Lube Outlet:	¼" O.D. tube connection	
Maximum Lubricant Pressure:	4400 psig	300 bar
Reservoir Level Indication:	Visual through transparent reservoir	
Fill Method:	Fill cap and screen	

Note:

1. 3-way air valve required for pump operation.

The controls listed on the following two pages are designed to control the amount of time the selected system pump is on and the duration between lube events.

Model 84501 Program Timer—Solid State

Designed to control the lubrication cycle frequency of air operated single stroke pumps. Timer turns pump on/off at programmed intervals via a 3-way air solenoid valve (not included) installed in the air line to pump.

Off Time (Cycle Time)		On Time (Pumping Time)		Power Requirements	Approvals	Switch Capacity
Min	Max	Min	Max			
20 Sec.	24 Hrs.	10 Sec.	1 Min. 24 Sec.	120/230 VAC 50/60 Hz	UL, CSA	120 VAC, 5 Amps 230 VAC, 1.5 Amps

Built-In Program Options		Enclosure				Ambient Operating Temperature Range	
3 Hr. Program Memory	Prelube Function	Rating	Dimensions-in./mm			Minimum	Maximum
			Height	Width	Depth		
		NEMA #1	8¼ 210	6 13/16 173	4 15/16 125	0°F -18°C	130°F 54°C

Note:
Refer to Technical Manual for a full explanation of available program options.

Model 84511 Economy Timer for Single Stroke Pumps

Uses a timing motor, cam and Micro-Switch to turn pump off and on. NEMA 1 enclosure, UL and CSA listed. Switch capacity 10 amps non-inductive.

Off Time (Cycle Time)		On Time (Pumping Time)		Power Requirements	Approvals	Switch Capacity
Min	Max	Min	Max			
5 Min.	1 Hr.	30 Sec.	90 Sec.	120 VAC, 60 Hz	UL, CSA	10 Amps

Note: Off-time selectable in 5 minute intervals.

Enclosure			
Rating	Dimensions - in. / mm		
	Height	Width	Depth
NEMA 1	5 / 127	3¼ / 82.5	3½ / 89

Model 84015 Timer—12-24V DC

Solid state timer for automated lubrication systems requiring DC power. Rugged construction with liquid and dust-tight enclosure. Includes manual push button for remote initiation of a lube cycle.

Off Time** (Cycle Time)		Fixed On Time (Pumping Time)	Power Requirements	Switch Capacity
Min.	Max.			
2.5 Min.	80 Min.	75 Sec.	10-30 VDC 25 MA*	5 Amps

* Less load.
** Available selections are 2.5, 5, 10, 20, 40 or 80 minutes.

Enclosure				Ambient Operating Temperature Range	
Rating	Dimensions-in / mm			Minimum	Maximum
	Height	Width	Depth		
NEMA 12	5¼ / 133	3⅛ / 79	3 / 76	0°F / -18°C	131°F / 55°C

Electric Solenoid Operated Air Valves

Model	Type	Electrical Characteristics			Air Inlet/ Outlet	Ambient Temp. Range	Cv Factor	Max. Press. psi / bar	Conduit Conn.
		Power Requirements	Inrush Current Amps	Holding Current Amps					
350241	3 Way	110 VAC, 50 Hz 120 VAC, 60 Hz 8.4 VA	.11	.07	¼" NPTF(F)	0° - 140°F -18° - 60°C	1.8	150 10.2	½" NPS(F)
350242		220 VAC, 50 Hz 240 VAC, 60 Hz 8.4 VA	.055	.035					

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These kits are designed to service up to 12 points from a single grease fitting utilizing our 12 point SSV series divider valve. The kits, which are available with or without a grease gun, include all componentry required to install the system. Kits are available primed with NLGI #2 grease or non-filled if a specific grade or type of grease is to be used.

These kits effectively replace the concept of using grease fittings mounted to a central manifold with a system that delivers precise amounts of lubricant, fully monitored with the divider valve's indicator pin. Kits include 100' ¼" nylon tubing, 12 straight Quicklinc® tube fittings, 12 Zerk-Lock™ adapters, mounting clips and hardware.

Quicklub Centralized Lubrication Kits

Single point kits contain all items required to install a system on your machinery, including a complete installation/service manual. The selection chart describes the models available to meet your specific needs.

Model	Selection Chart Description	Tubing
87311	Kit with single fitting for use with portable grease gun.	Non-filled
87312		Pre-filled
87411	Complete kit with grease gun for permanent mounting.	Non-filled
87412		Pre-filled

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